Warehouse types and sizes

TRUSCON

STEEL WINDOWS AND STEEL DOORS

FOR COMMERCIAL, INDUSTRIAL
AND ARCHITECTURAL BUILDINGS

PIVOTED WINDOWS

•

COMMERCIAL
PROJECTED WINDOWS

•

ARCHITECTURAL
PROJECTED WINDOWS

SECURITY
WINDOWS

•

INDUSTRIAL
STEEL DOORS

No. A-621

JULY, 1947

(Supersedes No. A-616)

TRUSCON STEEL COMPANY
YOUNGSTOWN, O.

SUBSIDIARY OF REPUBLIC STEEL CORPORATION

WAREHOUSES AND SALES OFFICES IN PRINCIPAL CITIES

TRUSCON DISTRICT SALES OFFICES

ALBANY 7, N. Y., 75 State Street
ATLANTA 3, GA., 610 Rhodes-Haverty Building
BALTIMORE 11, MD., 330 W. 24th Street
BIRMINGHAM 3, ALA., 229 American Life Bldg.
BOSTON 27 (South), MASS., 307 Dorchester Ave.
BUFFALO 3, N. Y., 1426 Rand Building
CHARLESTON, W. VA., 612 Atlas Building
CHATTANOOGA 1, TENN., 19th and Grove Sts.
CHICAGO 6, ILL., 201 No. Wells Street
CINCINNATI 2, OHIO, 330 Dixie Terminal Bldg.
CLEVELAND 15, OHIO, 735 Hanna Bldg. Annex
COLUMBUS 15, OHIO, 818-821 Atlas Building
DALLAS 1, TEXAS, 314 Construction Building
DAYTON 2, OHIO, 44 So. Ludlow Street
DENVER 2, COLO., 228 Patterson Building
DETROIT 26, MICH., 615 Wayne Street
ERIE, PA., 215 Hayes Building
GREENSBORO, N. C., 935 Jefferson Standard Bldg.
HARRISBURG, PA., 410 N. Second Street
HOUSTON 11, TEXAS, 501 N. Greenwood Street
INDIANAPOLIS 3, IND., 398 Division Street
JACKSONVILLE 2, FLA., 301 Hildebrandt Bldg.
KANSAS CITY 6, MO., 1012 Baltimore Avenue
LITTLE ROCK, ARK., 812-13 Union Life Building
LOS ANGELES 54, CALIF., P. O. Box 3699, Terminal Annex Station
LOUISVILLE 1, KY., 1032 S. Eighth St.
MEMPHIS 5, TENN., 269 Walnut Street
MINNEAPOLIS 2, MINN., 246 Baker Building
NEW ORLEANS 12, LA., 1143 Canal Bank Bldg.
NEW YORK 17, N. Y., 155 E. 44th Street
NORFOLK 10, VA., 518 Dickson Building
OKLAHOMA CITY 2, OKLA., 610½ Colcord Drive
OMAHA 2, NEB., 806-7 Insurance Bldg.
PHILADELPHIA 3, PA., 1616 Walnut Street
PHOENIX, ARIZ., 303 Luhrs Building
PITTSBURGH 22, PA., 2541 Oliver Building
PORTLAND 12, ORE., 2139 N. Kerby Avenue
POTTSVILLE, PA., 1541 Howard Ave.
RICHMOND, VA., 122 N. 8th Street
ST. LOUIS 3, MO., 8th Floor, Shell Building
SALT LAKE CITY 10, UTAH, 1526 So. W. Temple St.
SAN FRANCISCO 5, CALIF., 604 Mission Street
SEATTLE 4, WASH., 757 Central Building
SYRACUSE 2, N. Y., 303 Syracuse-Kemper Insurance Building
TOLEDO 4, OHIO, 220 Richardson Building
WASHINGTON 5, D. C., 700 Investment Building
YOUNGSTOWN 1, OHIO, 1315 Albert Street

Export Department

Chrysler Bldg., 405 Lexington Ave., New York 17, N. Y.

Pressed Steel Division

6100 Truscon Avenue, Cleveland 4, Ohio

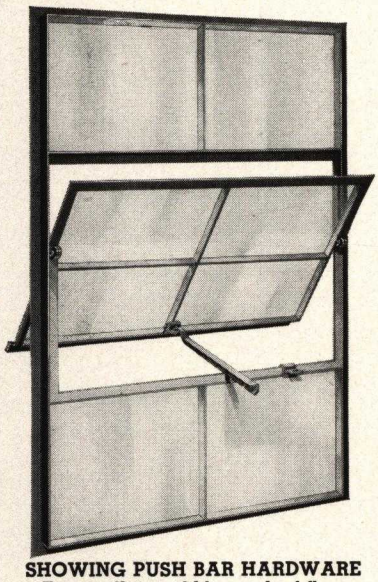
Factories

YOUNGSTOWN, OHIO - CLEVELAND, OHIO
CANTON, OHIO - GADSDEN, ALA.
WALKERVILLE, ONT., CANADA

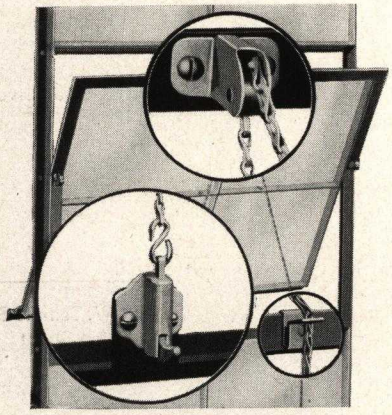
WAREHOUSES

BOSTON, MASS.	INDIANAPOLIS, IND.
BUFFALO, N. Y.	JACKSONVILLE, FLA.
CHAT'NOOGA, TENN.	KANSAS CITY, MO.
CHICAGO, ILL.	LONG ISLAND CITY, N. Y.
CINCINNATI, OHIO	LOS ANGELES, CALIF.
CLEVELAND, OHIO	PHILADELPHIA, PA.
DETROIT, MICH.	PITTSBURGH, PA.
DENVER, COLO.	PORTLAND, ORE.
GADSDEN, ALA.	ST. LOUIS, MO.
HARRISON, N. J.	SAN FRANCISCO, CALIF.
HOUSTON, TEXAS	YOUNGSTOWN, OHIO

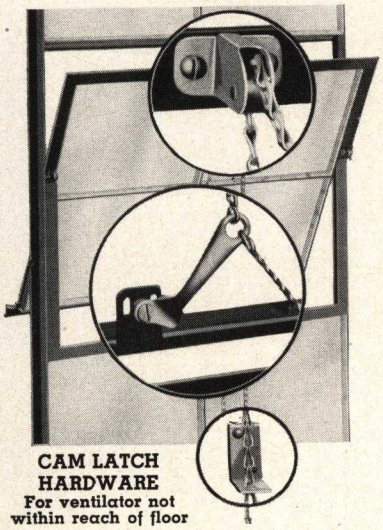
TRUSCON PIVOTED STEEL WINDOWS



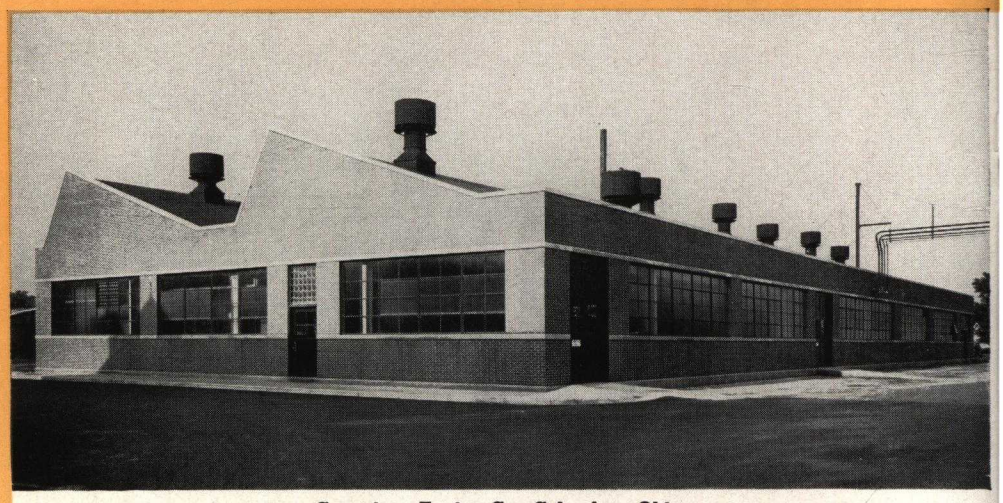
SHOWING PUSH BAR HARDWARE
For ventilator within reach of floor



SPRING LATCH HARDWARE
For ventilator not within reach of floor



CAM LATCH HARDWARE
For ventilator not within reach of floor



Cummings Engine Co., Columbus, Ohio

Truscon Pivoted Steel Windows are adaptable to all types of industrial and commercial buildings, including warehouse, factory and storage buildings, garages, filling stations, etc. The slender but strong and rigid steel muntin bars admit the maximum of light to the interior. The windows are permanent and fire-proof. They never stick, shrink, warp, or fail to operate easily, regardless of climatic conditions.

Pivoted Steel Windows are made of heavy, hot-rolled steel sections. The outside section is of angle shape, providing a 5/8" anchorage at the masonry or mullion connection. The intersection of the horizontal and vertical member is a dovetail mitre rigidly interlocking the bars. All muntin bars, except where ventilators occur, are continuous from head to sill and jamb to jamb. Double contact weathering is provided on all four sides of ventilator. Screens: When screened openings are required, we recommend the use of Commercial Projected Windows and screens. (See pages 4 and 5).

CAM ACTING PUSH BAR

Cam acting push bar hardware is furnished when the ventilator is within easy reach of the floor. The push bar is used for holding the ventilator open in any desired position and also for locking the ventilator. By folding the push bar back against the window and engaging it in the cleat, the ventilator is drawn up weathertight and locked. Unless otherwise specified, push bar hardware will always be furnished.

SPRING LATCH AND CHAIN

Spring latch and chain hardware is furnished when the ventilator is not within easy reach of the floor. A slight pull on the chain, which passes through the roller bracket fastened to the top of the ventilator, releases the latch and opens the ventilator. The ventilator is held open in any position by fastening the chain into the chain hook. Ventilators close and lock by gravity when the chain is disengaged. (In ordering always advise the sill height above the floor, so that correct amount of chain and correct type of chain hook may be supplied.)

CAM LATCH AND CHAIN

Cam latch and chain hardware will be furnished only when orders specifically ask for it. This hardware is an alternate to standard spring latch and chain.

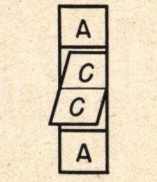
TRUSCON PIVOTED STEEL WINDOWS

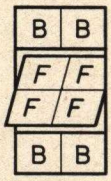
WAREHOUSE TYPES AND SIZES

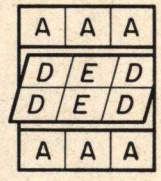
Grid lines and grid dimension points are indicated in red for the convenience of designers using the modular system.

NOTES

DIMENSIONS SHOWN IN BLACK ARE WINDOW OPENING DIMENSIONS

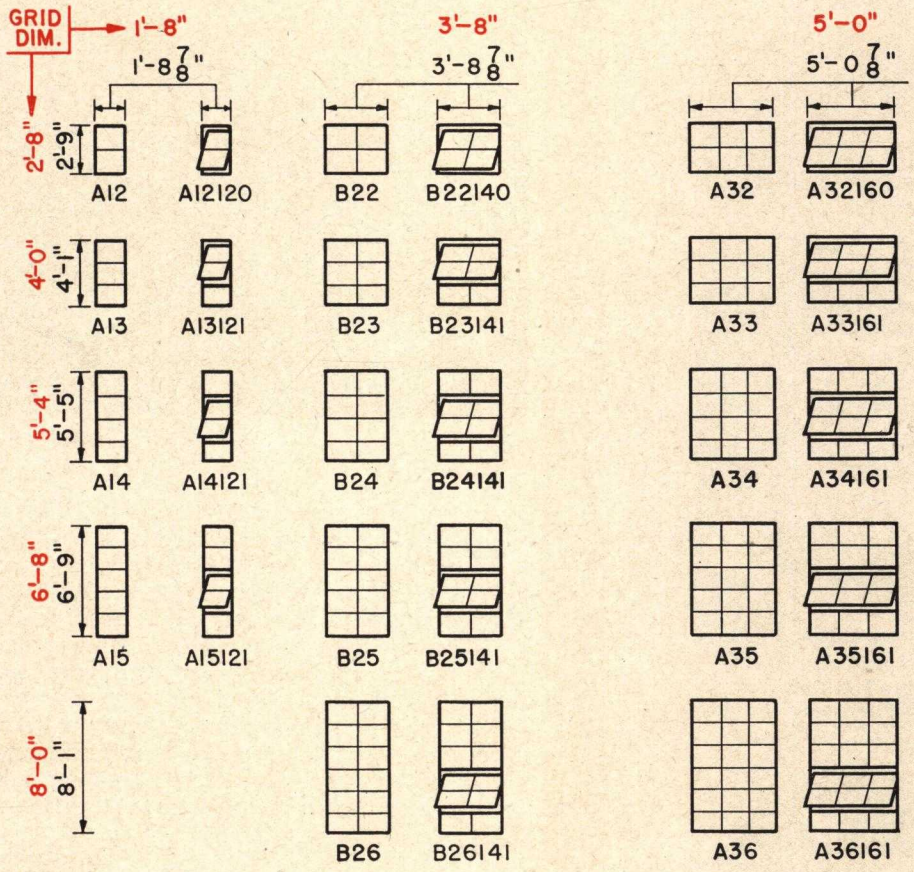


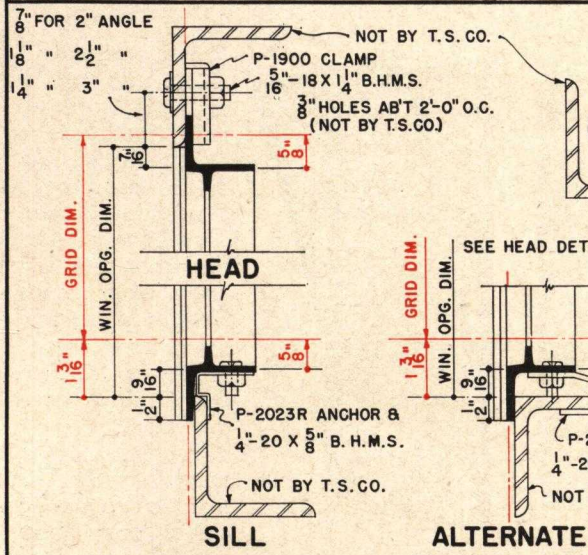


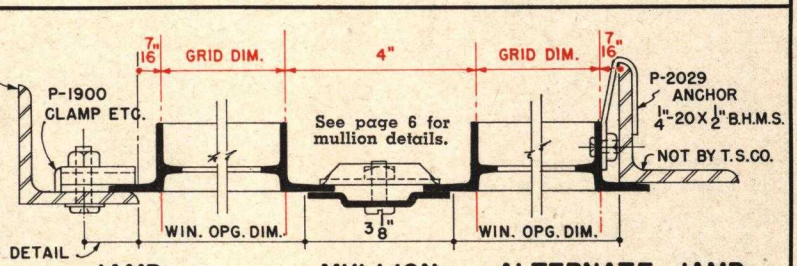


GLASS SIZES

A — 19 5/8" X 15 5/8"
B — 21 5/8" X 15 5/8"
C — 17 5/8" X 14 5/8"
D — 18 5/8" X 14 5/8"
E — 19 5/8" X 14 5/8"
F — 20 5/8" X 14 5/8"







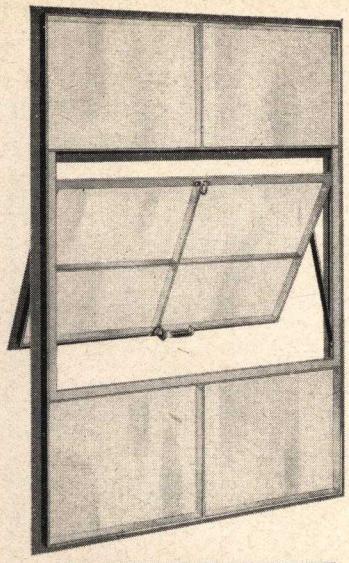
NOTES

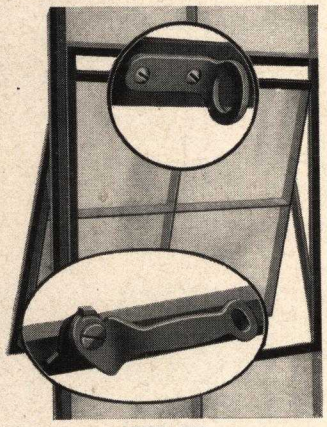
TOTAL OPENING WIDTHS OF MULTIPLE UNIT OPENINGS MAY BE SPEEDILY DETERMINED BY USING GRID DIMENSIONS OF WINDOWS (SHOWN IN RED ABOVE) AND MULLIONS (4") AND ADDING 7/8" TO TOTAL GRID WIDTH FOR NECESSARY CLEARANCE AT JAMBS.

DETAILS SHOWN APPLY TO BOTH PIVOTED AND COMMERCIAL PROJECTED WINDOWS.

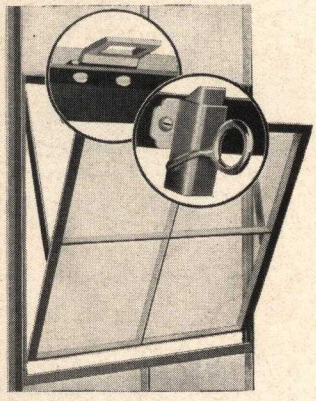
FOR DETAILS SHOWING INSTALLATION OF WINDOWS IN MASONRY OPENINGS, SEE COMMERCIAL PROJECTED PLATES.

TRUSCON COMMERCIAL PROJECTED STEEL WINDOWS

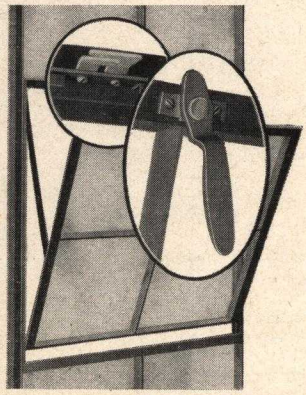




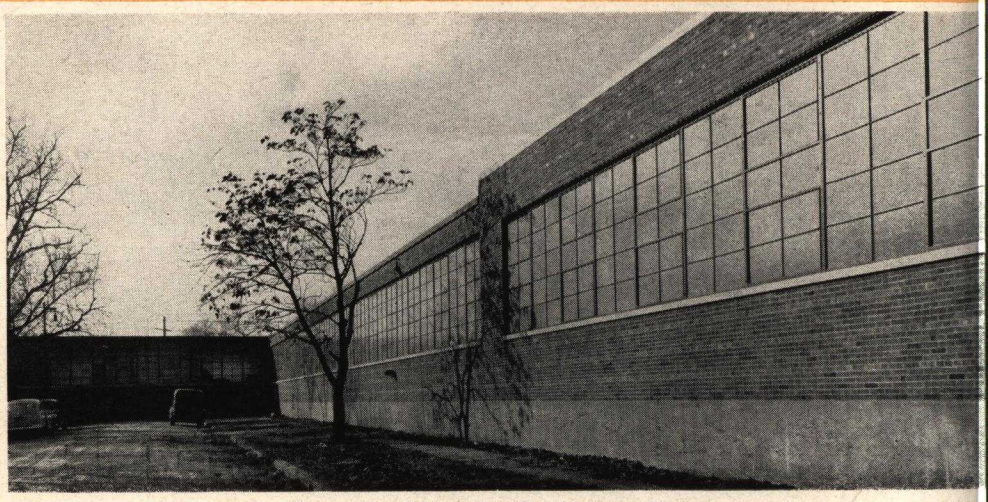
SET 200
Hand or Pole Operation
For Outward Projecting Ventilator



SET 203
Hand or Pole Operation
For Inward Projecting Ventilator



SET 209
Hand Operation
For Inward Projecting Ventilator

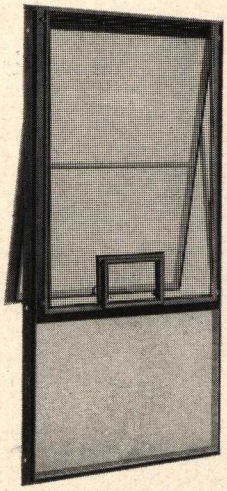


Signode Steel Strapping Co., Chicago, Illinois

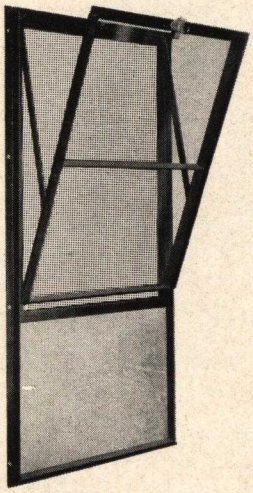
In the projecting type window, the ventilator, when open, does not extend beyond one face of the window. Projecting outward ventilators do not extend inside the window, while projecting inward ventilators do not extend outside the window. Projecting outward ventilators are used where it is necessary to have free aisle space along the window wall, where shading is important, or where pipes, conduits, racks, etc., pass across the ventilator. Projecting inward ventilators are used when the building is close to the property line or when economical screening is required. Both types of ventilators permit cleaning of the outside of the glass from within. Ventilators are balanced on supporting arms and are held in any desired open position by forged brass sliding friction shoes.

SCREENS

Truscon wicket screen for outward projecting ventilators offers a new economy and convenience. The screen is tightly fastened to the window with four screws. The hinged wicket, built into the screen, allows plenty of room for the hand and arm to pass through, to open or close the window. (Wicket screens cannot be used for ventilators beyond reach of the floor.)



Outward Projecting Ventilator with Wicket Screen



Inward Projecting Ventilator with Fixed Screen

Projecting inward ventilators with fixed screens on the outside are recommended for all openings beyond reach of the floor and where conditions demand that no portion of the screen, however small, be opened when opening or closing windows.

The screen is easily attached to the outside of the window from within the room.

All screen cloth is 18x14 mesh bronze. All screen frames are steel and receive one shop coat bakelite gray enamel baked on. All screens are rewirable.

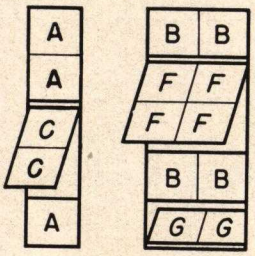
TRUSCON COMMERCIAL PROJECTED STEEL WINDOWS

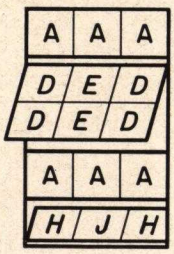
WAREHOUSE TYPES AND SIZES

Grid lines and grid dimension points are indicated in red for the convenience of designers using the modular system.

NOTES

DIMENSIONS SHOWN IN BLACK ARE WINDOW OPENING DIMENSIONS.

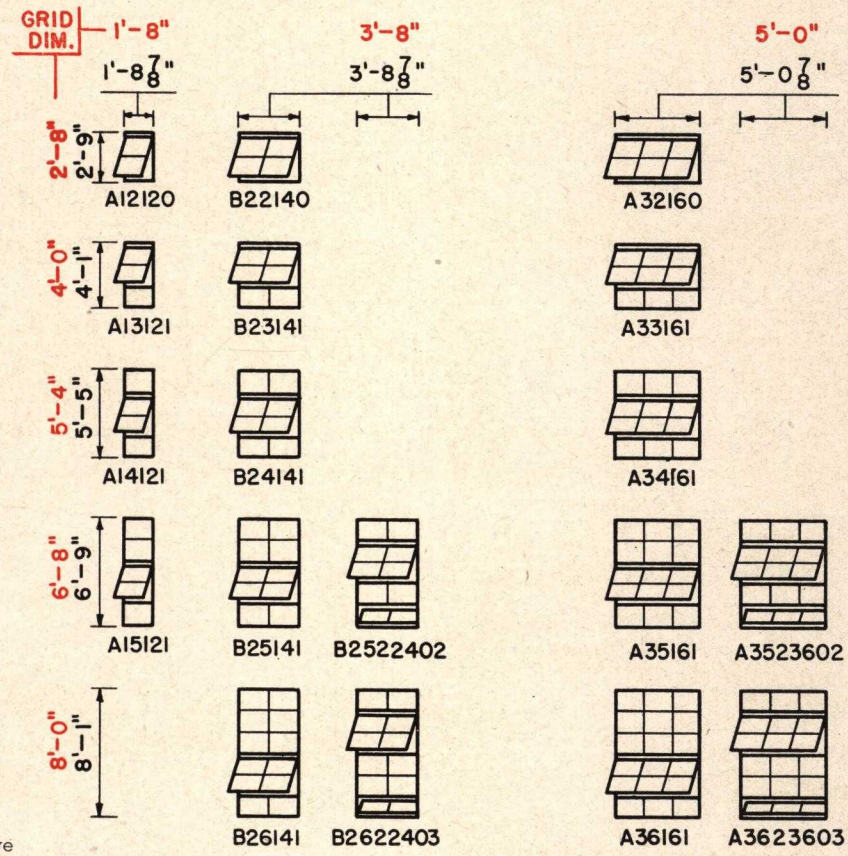




GLASS SIZES

A-19 5/8" X 15 5/8"	F-20 5/8" X 14 5/8"
B-21 5/8" X 15 5/8"	G-20 5/8" X 13 5/8"
C-17 5/8" X 14 5/8"	H-18 5/8" X 13 5/8"
D-18 5/8" X 14 5/8"	J-19 5/8" X 13 5/8"
E-19 5/8" X 14 5/8"	

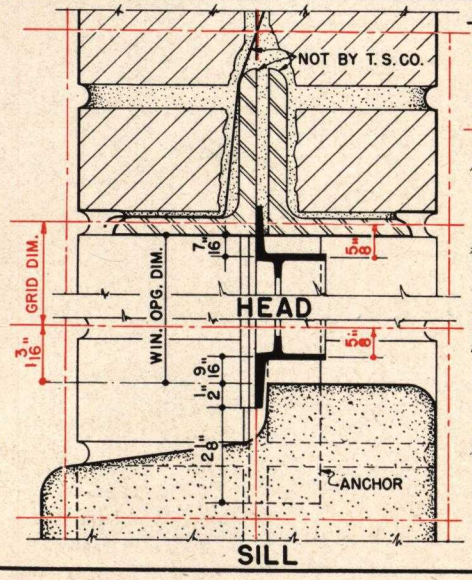
NOTE: Windows shown above have outward projecting main ventilators. These sizes are also available with inward projecting ventilators excepting units with two vents.

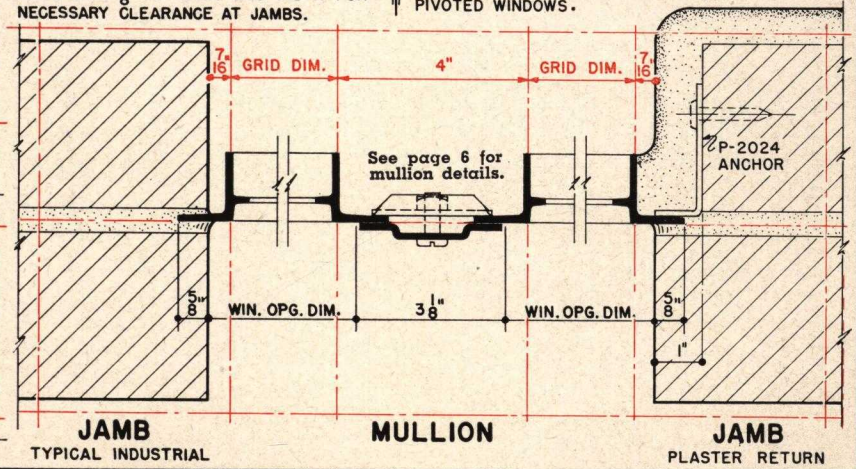


NOTE — TOTAL OPENING WIDTHS OF MULTIPLE UNIT OPENINGS MAY BE SPEEDILY DETERMINED BY USING GRID DIMENSIONS OF WINDOWS (SHOWN IN RED ABOVE) AND MULLIONS (4") AND ADDING 7/8" TO TOTAL GRID WIDTH FOR NECESSARY CLEARANCE AT JAMBS.

NOTE — DETAILS SHOWN APPLY TO BOTH PIVOTED AND COMMERCIAL PROJECTED WINDOWS.

NOTE — FOR DETAILS SHOWING INSTALLATION OF WINDOWS IN STEEL CONSTRUCTION, SEE PLATE ON PIVOTED WINDOWS.

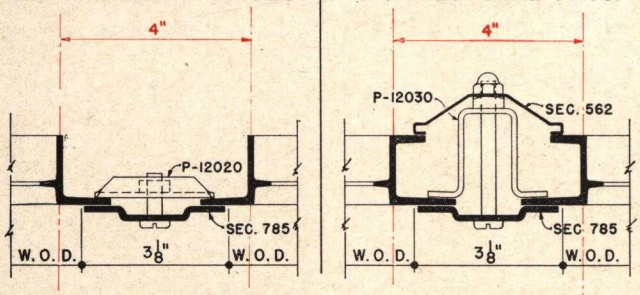




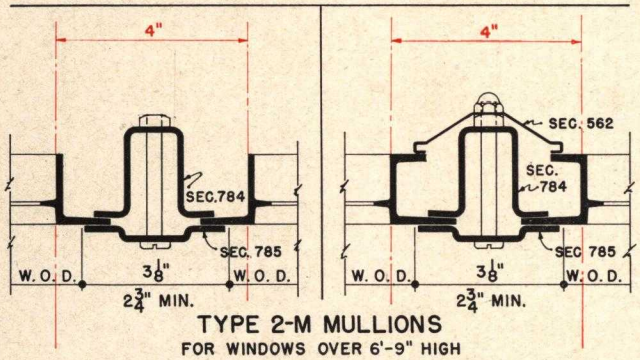
MULLIONS FOR TRUSCON PIVOTED, COMMERCIAL PROJECTED, ARCHITECTURAL PROJECTED AND SECURITY STEEL WINDOWS

MODULAR MULLIONS

COMM. PROJ. & PIVOTED | ARCHITECTURAL PROJ.



TYPE 1-M MULLIONS
FOR WINDOWS UP TO AND INCLUDING 6'-9" HIGH



TYPE 2-M MULLIONS
FOR WINDOWS OVER 6'-9" HIGH

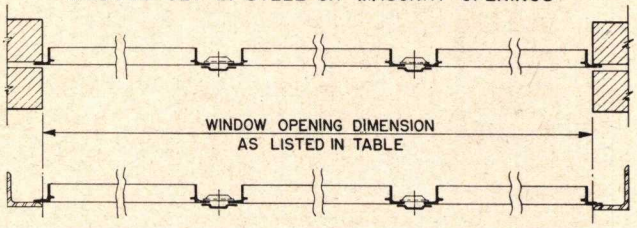
NOTES: With the exception of mullion covers which are furnished for Architectural Projected Windows only, mullions for same height dimensions are of the same structural design. Architectural Projected mullions are 1/4" longer than mullions for Pivoted or Commercial Projected Windows of same height dimension. Type 1-M mullion consists of one continuous member the full height of opening and type 2-M mullions includes two members for full height.

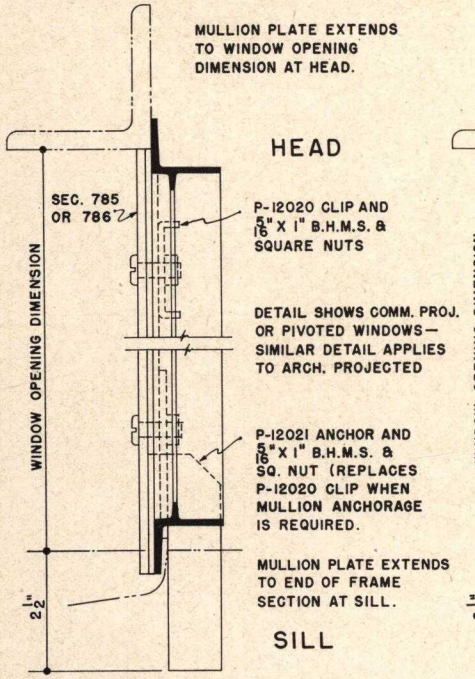
OPENING DIMENSIONS FOR SINGLE AND MULTIPLE UNIT WINDOWS

Window Opening Dimension	Quantity and Widths of Windows Used in Openings Listed			Mullions Required
	1'-8 7/8" 1 Light	3'-8 7/8" 2 Lights	5'-0 7/8" 3 Lights	3 1/8" Mull. Dim.
1'-8 7/8"	1	- - -	- - -	- - -
3'-8 7/8"	- - -	1	- - -	- - -
5'-0 7/8"	- - -	- - -	1	- - -
7'-8 7/8"	- - -	2	- - -	1
9'-8 7/8"	1	2	- - -	2
10'-4 7/8"	- - -	- - -	2	1
11'-8 7/8"	- - -	3	- - -	2
13'-0 7/8"	- - -	2	1	2
14'-4 7/8"	- - -	1	2	2
15'-8 7/8"	- - -	- - -	3	2
15'-8 7/8"	- - -	4	- - -	3
18'-4 7/8"	- - -	2	2	3
19'-8 7/8"	- - -	5	- - -	4
21'-0 7/8"	- - -	- - -	4	3
22'-4 7/8"	- - -	3	2	4
23'-8 7/8"	- - -	6	- - -	5
23'-8 7/8"	- - -	2	3	4
25'-0 7/8"	- - -	1	4	4
26'-4 7/8"	- - -	- - -	5	4

NOTE: For Grid Dimension Deduct 7/8" from Window Opening Dimension.

WINDOWS SET IN STEEL OR MASONRY OPENINGS




MULLION PLATE EXTENDS TO WINDOW OPENING DIMENSION AT HEAD.
HEAD
SEC. 785 OR 786
P-12020 CLIP AND 5/16" X 1" B.H.M.S. & SQUARE NUTS
DETAIL SHOWS COMM. PROJ. OR PIVOTED WINDOWS— SIMILAR DETAIL APPLIES TO ARCH. PROJECTED
P-12021 ANCHOR AND 5/16" X 1" B.H.M.S. & SQ. NUT (REPLACES P-12020 CLIP WHEN MULLION ANCHORAGE IS REQUIRED.
MULLION PLATE EXTENDS TO END OF FRAME SECTION AT SILL.
WINDOW OPENING DIMENSION
2 1/2"
SILL

TYPES 1 & 1-M MULLIONS
SHOWING SILL ANCHORAGE

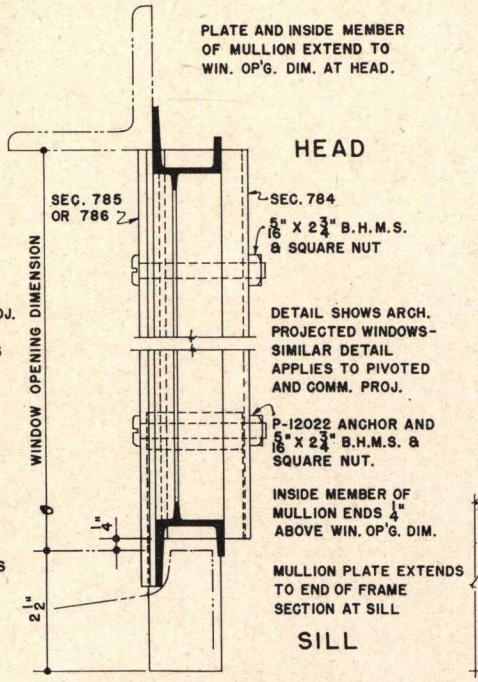
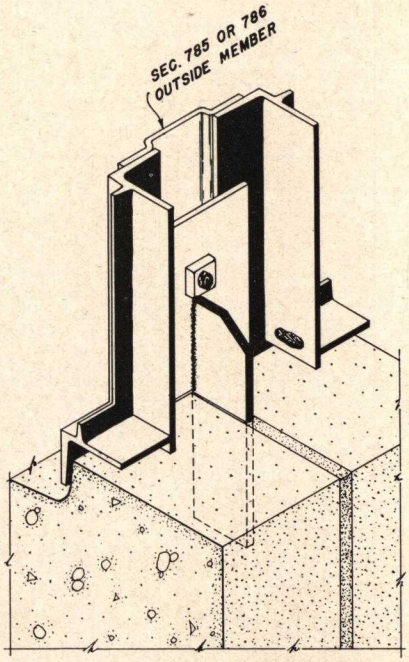


PLATE AND INSIDE MEMBER OF MULLION EXTEND TO WIN. OP'G. DIM. AT HEAD.
HEAD
SEC. 785 OR 786
SEC. 784
5/16" X 2 3/4" B.H.M.S. & SQUARE NUT
DETAIL SHOWS ARCH. PROJECTED WINDOWS- SIMILAR DETAIL APPLIES TO PIVOTED AND COMM. PROJ.
P-12022 ANCHOR AND 5/16" X 2 3/4" B.H.M.S. & SQUARE NUT.
INSIDE MEMBER OF MULLION ENDS 1/4" ABOVE WIN. OP'G. DIM.
MULLION PLATE EXTENDS TO END OF FRAME SECTION AT SILL
WINDOW OPENING DIMENSION
2 1/2"
SILL

TYPES 2 & 2-M MULLIONS
SHOWING SILL ANCHORAGE



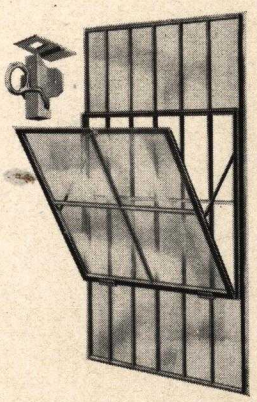
P-12021 ANCHOR
AS APPLIED TO MULLION & MASONRY

TRUSCON SECURITY STEEL WINDOWS

Truscon Security Windows are standardized detention windows, built of heavy industrial window sections. Their weight and strength are adequate to effectively resist unauthorized entry to store buildings, warehouses, and commercial and industrial buildings. Glazing is from the interior side with wire clips and putty as standard.

Glazing of the main frame is omitted where vents occur and glass is set in the vent instead. Vents are bottom hinged to swing in. Opening is limited to 35° by friction side arms.

Screens may be conveniently installed into a recess provided for them between ventilator and main frame, without the drilling of any additional holes.



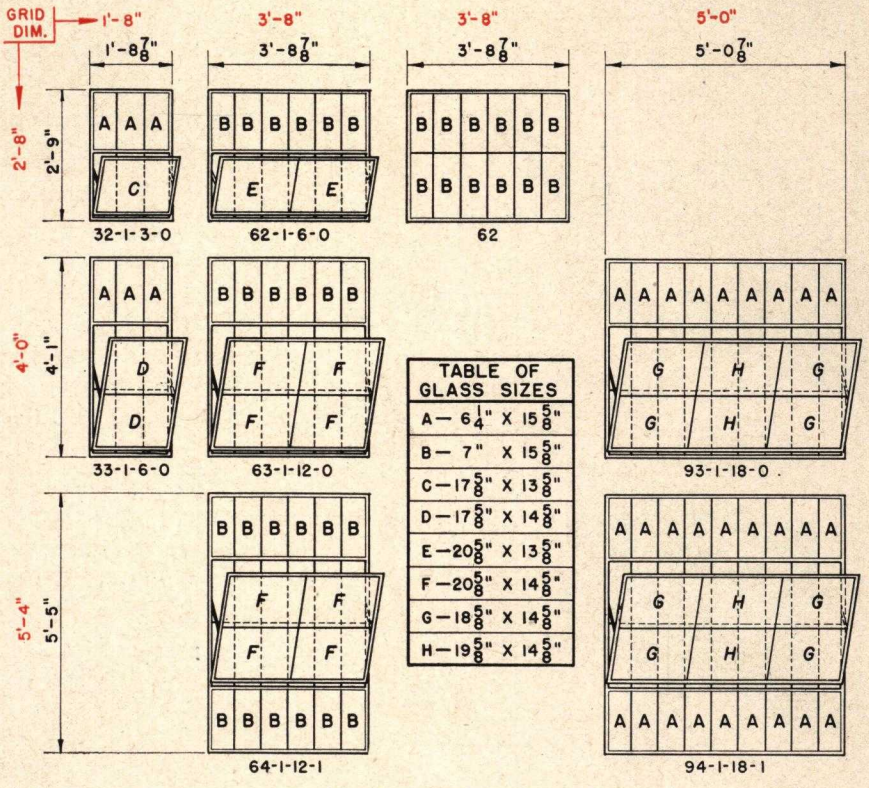
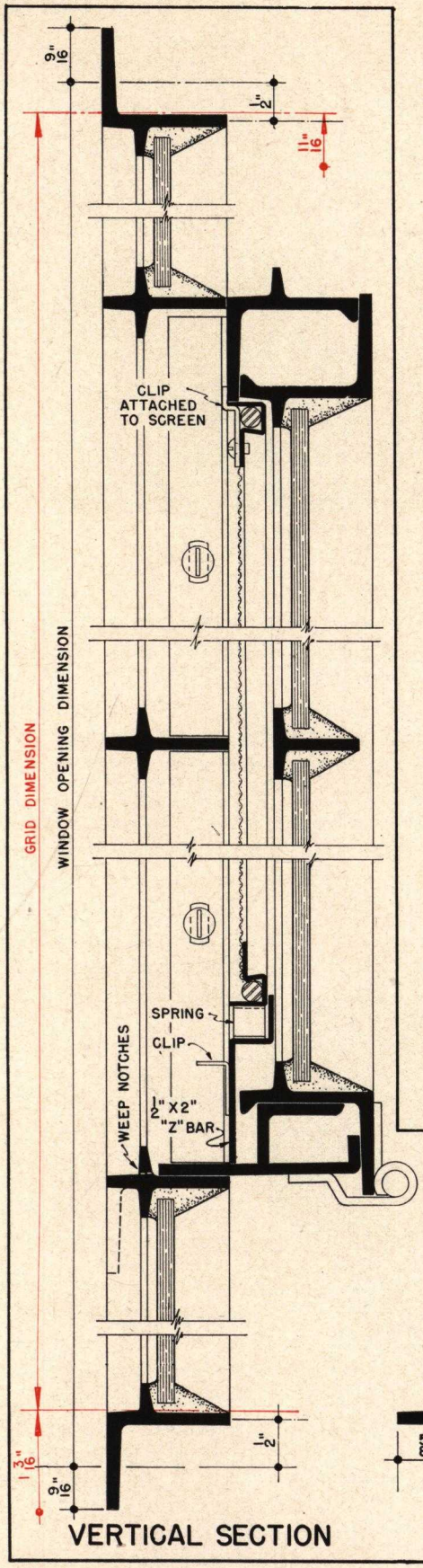
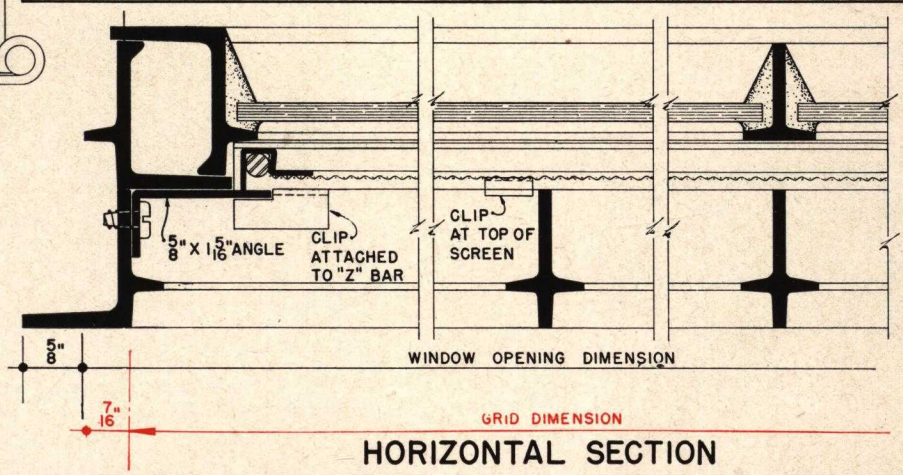


TABLE OF GLASS SIZES
A — 6 1/4" X 15 5/8"
B — 7" X 15 5/8"
C — 17 5/8" X 13 5/8"
D — 17 5/8" X 14 5/8"
E — 20 5/8" X 13 5/8"
F — 20 5/8" X 14 5/8"
G — 18 5/8" X 14 5/8"
H — 19 5/8" X 14 5/8"

ALL UNITS VIEWED FROM THE INSIDE

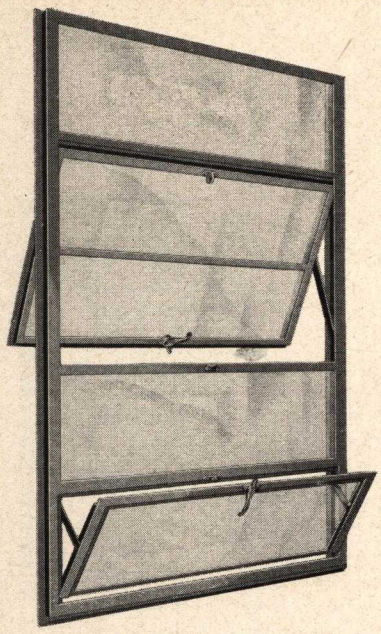


VERTICAL SECTION



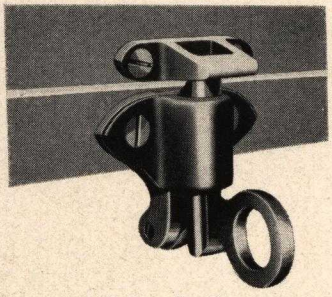
HORIZONTAL SECTION

TRUSCON ARCHITECTURAL PROJECTED STEEL WINDOWS

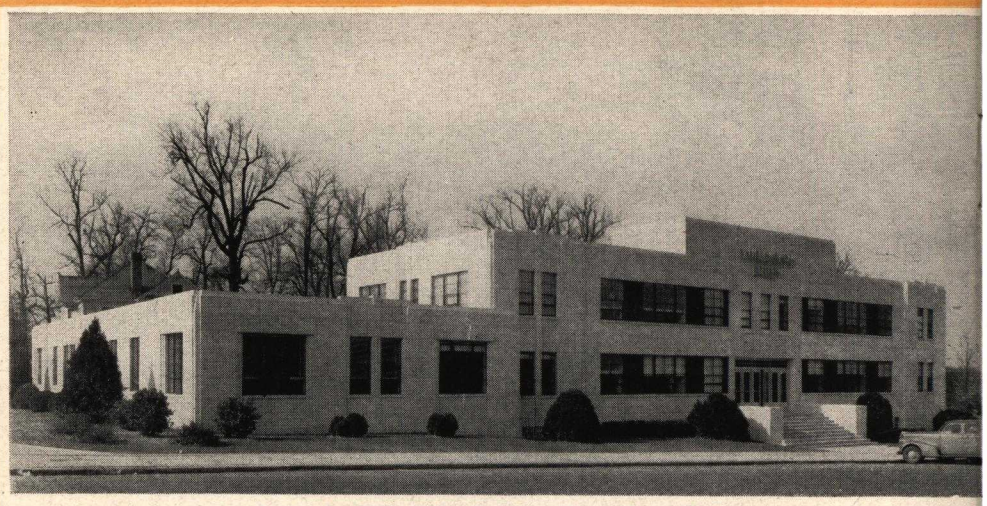


Cam Handle for Outward Projecting Ventilators

Cam Handle and Strike for Inward Projecting Ventilators

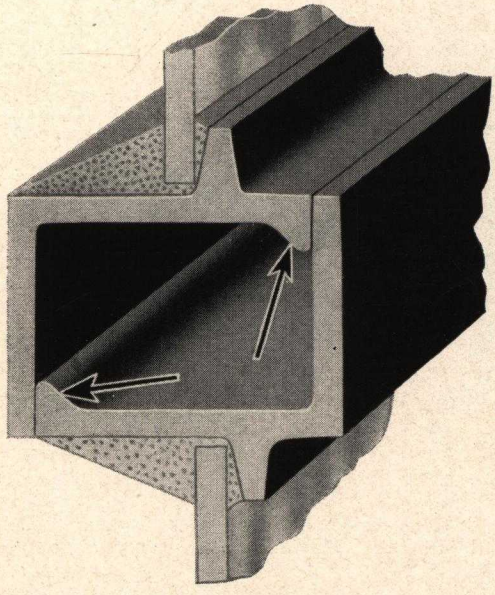


Spring Latch For Inward Projecting Ventilators



Burlington Mills Office Building, Greensboro, N. C.

Truscon Architectural Projected Steel Windows are especially recommended for use in any building where ample ventilation and freedom from drafts are important considerations. Outward projecting ventilators may be kept open during inclement weather; the ventilator acting as a canopy to deflect the rain and yet allow ventilation. The lower, inward projecting ventilator prevents drafts by deflecting air currents toward the ceiling. Projecting ventilators permit easy cleaning from the inside. Rigidity in even the largest ventilators is insured by the use of a heavy one-piece casement-type vent frame section, mortised and tendoned and welded at the corners. Windows are designed for outside putty glazing as standard. Mullion covers are furnished with all mullions.



NOTE: Full size section showing casement type weathering contacts, an exclusive Truscon feature on windows of this classification.

The integral baffles in Truscon's design of special hot rolled sections eliminate the uncertain weathering contacts characteristic of the usual steel window shapes, thus reducing air infiltration to a minimum.

Solid bronze hardware is standard. All warehouse units are prepared to receive standard insect screens. Flat screens are available for open-in ventilators. Wicket screens are available for open-out vents.

TRUSCON ARCHITECTURAL PROJECTED STEEL WINDOWS

TYPES AND SIZES

Grid lines and grid dimension points are indicated in red for the convenience of designers using the modular system.

NOTES

DIMENSIONS SHOWN IN BLACK ARE WINDOW OPENING DIMENSIONS.

ALL WINDOWS SHOWN AS VIEWED FROM OUTSIDE.

ONLY STANDARD HARDWARE CONSISTING OF SOLID BRONZE, CAM ACTING, LOCKING HANDLES AND STRIKES FOR OPEN-OUT VENTS, AND EITHER BRONZE LOCKING HANDLE OR BRONZE SPRING CATCH FOR POLE OPERATION OF OPEN-IN VENTS, WILL BE FURNISHED.

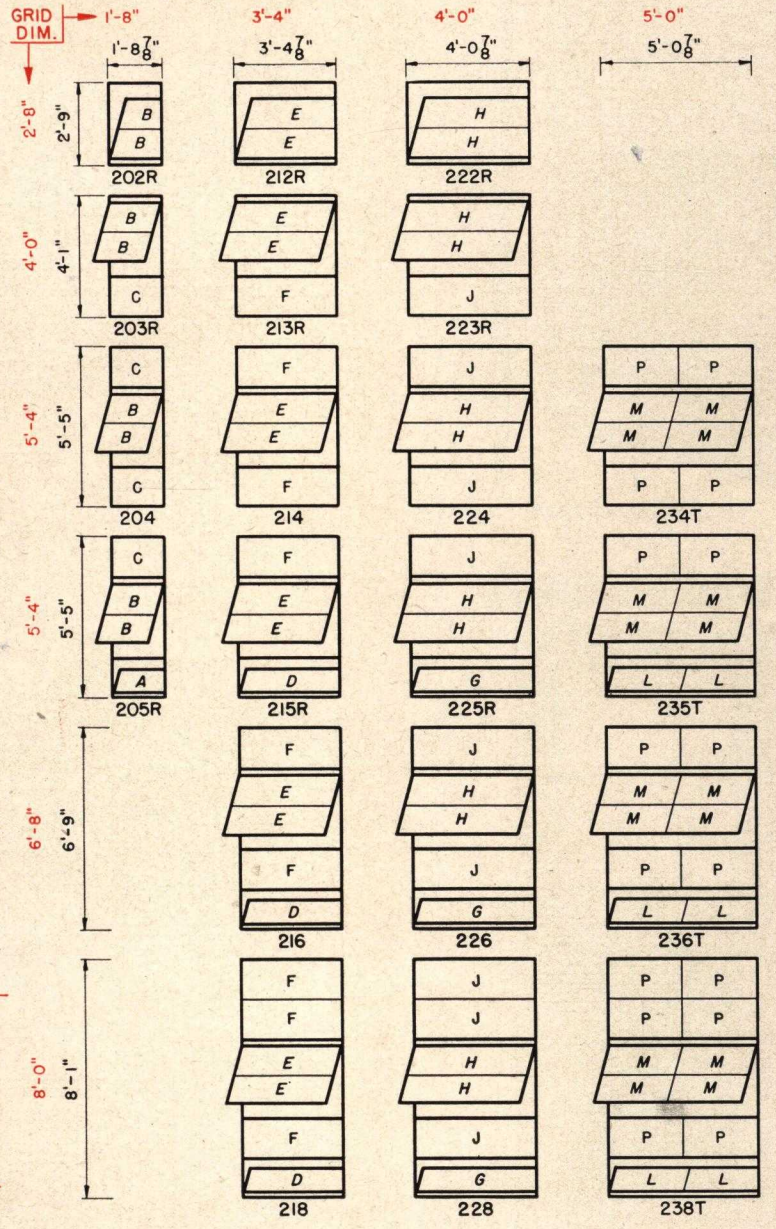
ALL UNITS ARE PREPARED TO RECEIVE TRUSCON STANDARD WICKET TYPE SCREENS LOCATED ON INTERIOR SIDE FOR ALL OPEN-OUT VENTS, AND FIXED SCREENS LOCATED ON EXTERIOR SIDE FOR ALL OPEN-IN VENTS.

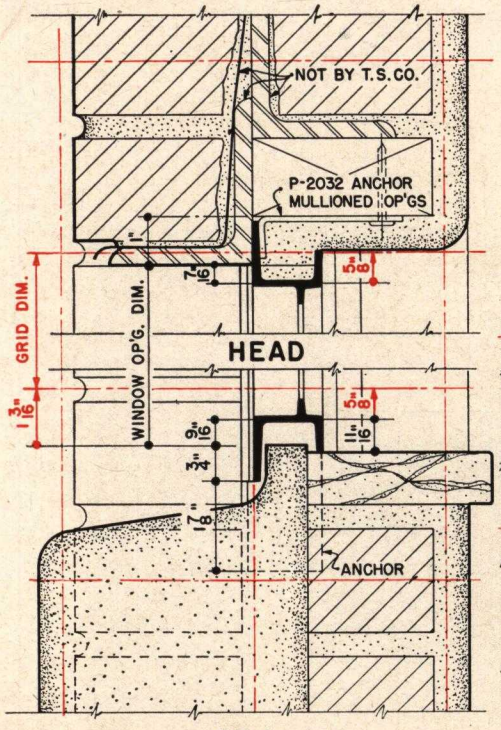
REFER TO TRUSCON'S GENERAL WINDOW CATALOG FOR ADDITIONAL TYPES AND SIZES AVAILABLE ON SPECIAL ORDER.

TABLE OF GLASS SIZES			
A	17 5/8" X 13 5/8"	G	45 5/8" X 13 5/8"
B	17 5/8" X 14 5/8"	H	45 5/8" X 14 5/8"
C	19 5/8" X 15 5/8"	J	47 5/8" X 15 5/8"
D	37 5/8" X 13 5/8"	L	28 5/8" X 13 5/8"
E	37 5/8" X 14 5/8"	M	28 5/8" X 14 5/8"
F	39 5/8" X 15 5/8"	P	29 5/8" X 15 5/8"

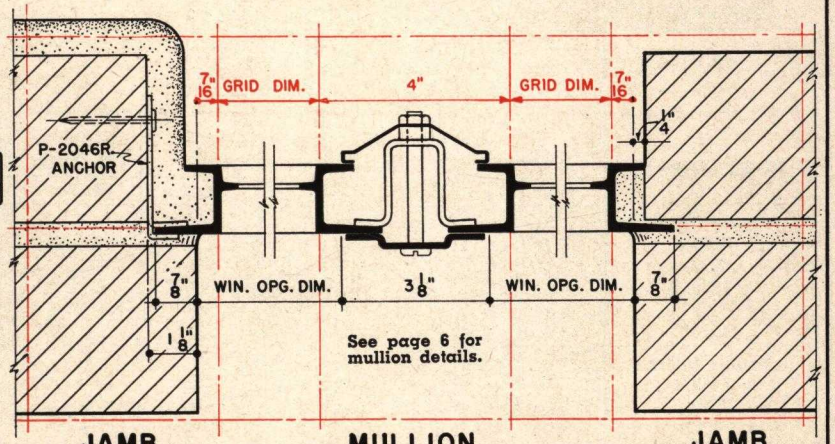
NOTE

TOTAL OPENING WIDTHS OF MULTIPLE UNIT OPENINGS MAY BE SPEEDILY DETERMINED BY USING GRID DIMENSIONS OF WINDOWS (SHOWN IN RED AT RIGHT) AND MULLIONS (4") AND ADDING 7/8" TO TOTAL GRID WIDTH FOR NECESSARY CLEARANCE AT JAMBS.





SILL
MASONRY DETAILS BASED ON 3C=8"



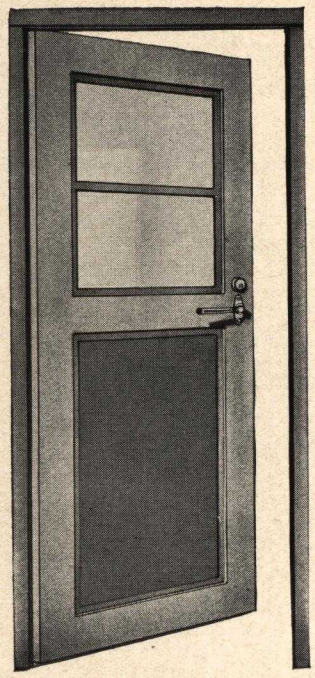
See page 6 for mullion details.

JAMB
PLASTER RETURN

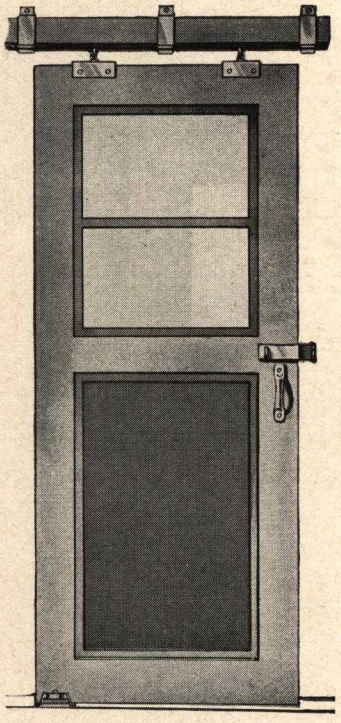
MULLION
SHOWING COVER

JAMB
WITHOUT PLASTER

TRUSCON INDUSTRIAL STEEL DOORS -- SERIES 31



SINGLE SWING DOOR



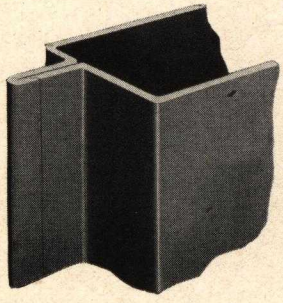
SINGLE SLIDE DOOR

Truscon Series 31 Industrial Steel Doors are made of carefully formed heavy gauge tubular steel members, reinforced at the corners and electrically welded at the joints. Built to withstand hard usage, they are well adapted to the constant service required of doors in Factories, Warehouses, Depots, Garages, Service Stations and similar structures.

The stiles and rails are made from No. 16 gauge steel tube, 5" x 1¾". The corners are welded solidly and ground smooth. Stock types are in sash panel design only. Solid panel doors will be furnished for shipment from Youngstown at same price.

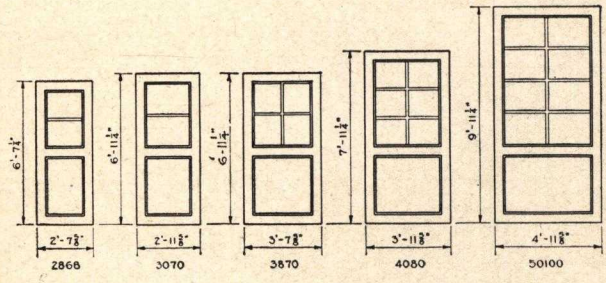
Glass is set in bed putty and held in place by continuous glazing angles placed on inside. Glass and putty are not furnished.

Pressed steel frames of heavy construction are available for use with swing doors. They are reinforced at hinge points and masonry anchors are furnished. Door frames are shipped knocked down.



Lock Seam Tube

Stiles and rails are made of pressed steel tubing with lock seam. All corners are carefully fitted and welded solidly. The large size of the 16 gauge tube, 1¾" x 5 in., provides an ideal condition for welding of corners where approximately 14 in. of continuous welding insures permanent rigidity and complete elimination of sagging.



NOTES

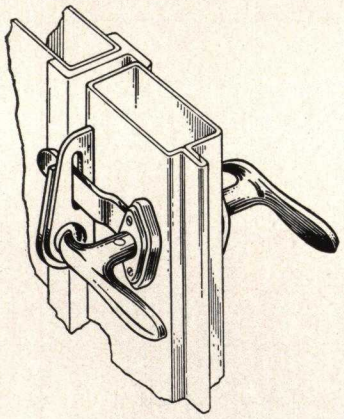
Sizes shown are door leaf sizes. See table for door opening and masonry opening sizes. Doors No. 2868, 3070 & 3870 may have muntins omitted or have solid panels in place of sash panels. Solid panel doors are not stocked. Doors No. 4080 & 50-100 are furnished only with sash panels as shown. Single doors shown are combined to make double doors.

DOOR NUMBER	DOOR SIZE		SWING DOOR OPENING DIM.		SWING DOOR *MASONRY OPG. DIM.		SLIDE DOOR OPENING DIM.		GLASS SIZES
	Width	Height	Width	Height	Width	Height	Width	Height	
Single Doors									
2868	2' 7⅝"	6' 7¼"	2' 8"	6' 8"	3' 0½"	6' 10¼"	....	....	21⅜" x 16"
3070	2' 11⅝"	6' 11¼"	3' 0"	7' 0"	3' 4½"	7' 2¼"	2' 8"	6' 10"	25⅜" x 18"
3870	3' 7⅝"	6' 11¼"	3' 8"	7' 0"	4' 0½"	7' 2¼"	....	....	16⅜" x 18"
4080	3' 11⅝"	7' 11¼"	4' 0"	8' 0"	4' 4½"	8' 2¼"	3' 8"	7' 10"	18⅜" x 15⅞"
50-100	4' 11⅝"	9' 11¼"	5' 0"	10' 0"	5' 4½"	10' 2¼"	4' 8"	9' 10"	24⅜" x 15⅞"
Double Doors									
5468	5' 3⅝"	6' 7¼"	5' 4"	6' 8"	5' 8½"	6' 10¼"	....	....	21⅜" x 16"
6070	5' 11⅝"	6' 11¼"	6' 0"	7' 0"	6' 4½"	7' 2¼"	5' 8"	6' 10"	25⅜" x 18"
7470	7' 3⅝"	6' 11¼"	7' 4"	7' 0"	7' 8½"	7' 2¼"	....	....	16⅜" x 18"
8080	7' 11⅝"	7' 11¼"	8' 0"	8' 0"	8' 4½"	8' 2¼"	7' 8"	7' 10"	18⅜" x 15⅞"
100-100	9' 11⅝"	9' 11¼"	10' 0"	10' 0"	10' 4½"	10' 2¼"	9' 8"	9' 10"	24⅜" x 15⅞"

* Masonry opening dimensions listed for swing doors are based upon the use of Truscon Standard pressed steel door frames.

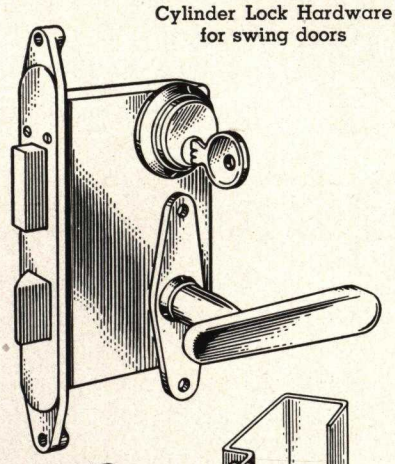
TRUSCON INDUSTRIAL STEEL DOORS — SERIES 31

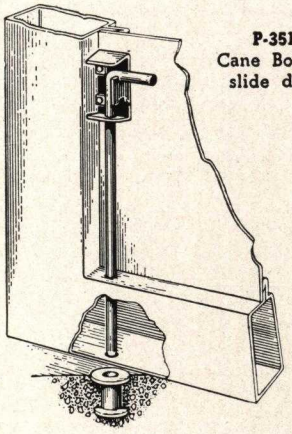
HARDWARE



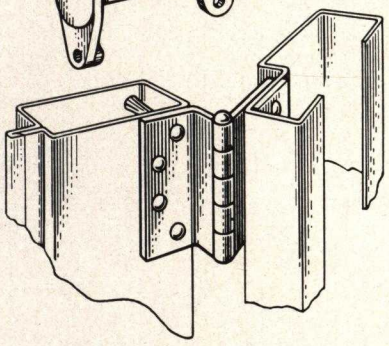
P-3528
Lever Latch Hardware for swing doors

BP-3500
Cylinder Lock Hardware for swing doors

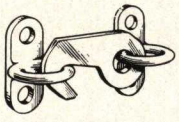




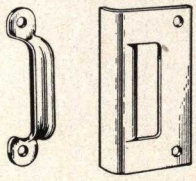
P-3517
Cane Bolt for slide doors



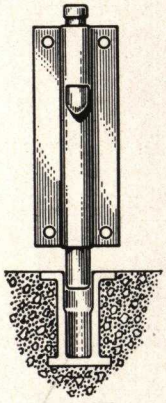
P-2996—Hinge for outswing doors
P-3618—Hinge for inswing doors



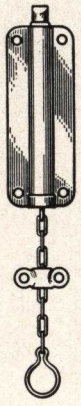
P-1354
Hook Back and Ring for swing doors



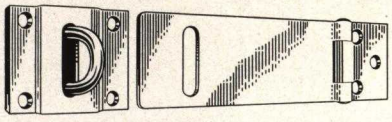
P-3527
Handle and Pull Assembly for slide doors



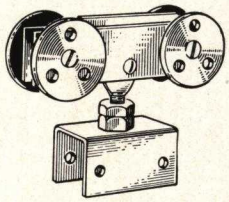
P-2993
Foot Bolt for double swing doors



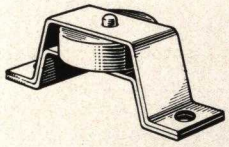
P-2994
Chain Bolt for double swing doors



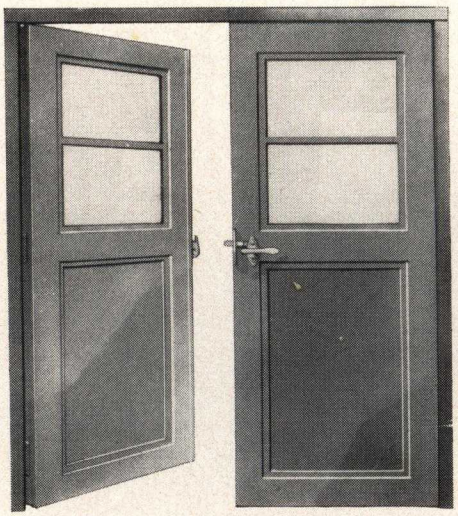
P-3521
Hasp and Staple Assembly for slide doors



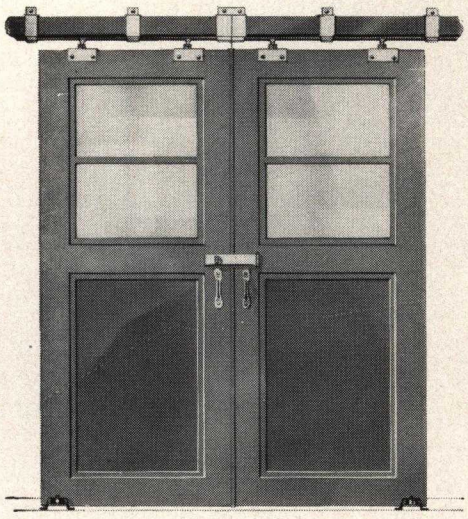
P-3540
Trolley Assembly for slide doors



P-3539
Roller Guide for slide doors



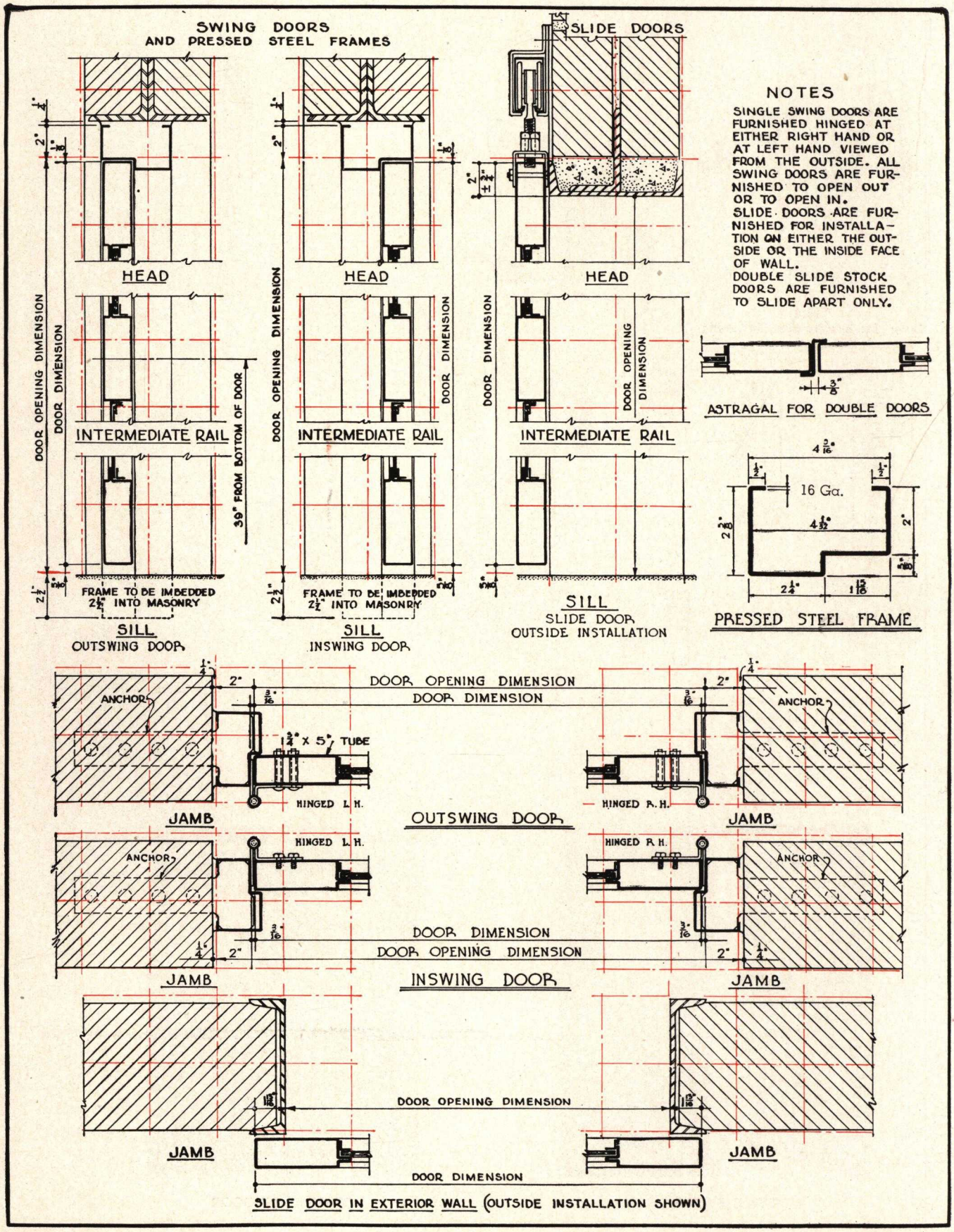
DOUBLE SWING DOOR



DOUBLE SLIDE DOOR

TRUSCON INDUSTRIAL STEEL DOORS — SERIES 31

STANDARD DETAILS



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